



Announcement of release of LEAF methods

Susan Thorneloe to: Lenny Grossman, Randy Parker, Ed Barth,
David Carson, David Kozlowski, Fran
Kremer, Souhail Al-Abed, Albert Venosa,
Cc: Greg Helms, Timothy Taylor, Douglas McKinney, Richard Shores,
princiotta.frank 10/26/2012 08:55 AM

From: Susan Thorneloe/RTP/USEPA/US
To: Lenny Grossman/R2/USEPA/US@EPA, Randy Parker/CI/USEPA/US@EPA, Ed
Barth/CI/USEPA/US@EPA, David Carson/CI/USEPA/US@EPA, David
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See Greg's email below. The LEAF Methods 1313 and 1316 have been posted as official EPA methods. The other two methods are also completed and to be posted very soon.

OSWER is developing guidance on how, when, and where the methods are to be used. Below are the reports that were completed this year to validate the methods and provide other information needed by OSWER in developing policy for BU and disposal of CCRs. The LEAF methods are being used by OSWER for both BU determinations in addition to evaluating impacts from CCR disposal.

Interlaboratory Validation of the Leaching Environmental Assessment Framework (LEAF) Method 1313 and Method 1316, EPA/600-R-12/623, September 2012

Interlaboratory Validation of the Leaching Environmental Assessment Framework (LEAF) Method 1314 and Method 1315, EPA/600-R-12/624, September 2012.

The Impact of Coal Combustion Fly Ash Used as a Supplemental Cementitious Material on the Leaching of Constituents from Cements and Concretes , EPA/600/R-12/704, October 2012.

Data Gap Analysis to Identify Available Leaching Data on the Use of Coal Combustion Residues for Potential Beneficial Use Applications , EPA/600/R-12/708

The last two reports were funded by OSWER.

----- Forwarded by Susan Thorneloe/RTP/USEPA/US on 10/26/2012 08:23 AM -----

From: Greg Helms/DC/USEPA/US
To: Ed Barth/CI/USEPA/US@EPA
Cc: Gregory Gervais/DC/USEPA/US@EPA, Linda Fiedler/DC/USEPA/US@EPA, RobinM
Anderson/DC/USEPA/US@EPA, Ron Wilhelm/DC/USEPA/US@EPA, Steve
Kohm/DC/USEPA/US@EPA, <Dennis.Grubb@ch2m.com>
Date: 10/23/2012 09:59 PM
Subject: Re: S/S Review Paper Inquiry

To all-- the first two LEAF methods are now posted on the "new methods" part of the SW-846 web site.
See the link below in my signature line-

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See OSWER's new LEAF leach test methods at:

http://epa.gov/wastes/hazard/testmethods/sw846/new_meth.htm

For an overview of hazardous waste regulation see the RCRA Orientation Manual, at:
www.epa.gov/epawaste/inforesources/pubs/orientat/

-----Ed Barth/CI/USEPA/US wrote: -----

To: <Dennis.Grubb@ch2m.com>
From: Ed Barth/CI/USEPA/US
Date: 10/23/2012 01:35PM
Cc: Steve Kohm/DC/USEPA/US@EPA, Greg Helms/DC/USEPA/US@EPA, Linda Fiedler/DC/USEPA/US@EPA, RobinM Anderson/DC/USEPA/US@EPA, Gregory Gervais/DC/USEPA/US@EPA, Ron Wilhelm/DC/USEPA/US@EPA
Subject: Re: S/S Review Paper Inquiry

Dennis: I am not aware of any "leach test methodology review of Superfund decisions" but some of my colleagues may offer an opinion based upon their experience. From my own experience, SDL type-testing always has and is still being incorporated into evaluations of S/S mix designs. Even in the early days of Superfund there was an effort to combine leach testing results with a site-specific ground water transport model, so SDL testing has always been in the arsenal of testing available. However, many people over the years have critiqued ANSI 16.1 testing as being too limited by only determining if the matrix was diffusion controlled, and only applicable to heavy metals (specifically radionuclides). I knew the people (Herschel Godbee) who developed the test and they said the methodology was a "compromise" amongst other scientists. From your email, you are aware of the EPA's LEAF methodologies that are currently being evaluated.

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---10/23/2012 12:37:29 PM---Ed: Greetings. Seems that semi-dynamic leach (SDL) testing (ANSI 16.1; ASTM C1308; Premethods 1314,

From: <Dennis.Grubb@ch2m.com>
To: Ed Barth/CI/USEPA/US@EPA
Date: 10/23/2012 12:37 PM
Subject: S/S Review Paper Inquiry

Ed:

Greetings. Seems that semi-dynamic leach (SDL) testing (ANSI 16.1; ASTM C1308; Premethods 1314, 1315) are getting a lot of play and I see the industry undergoing a pretty significant shift in the use of these methods.

I was curious to know if there was a review paper out there or other document that you could point me to where it is documented, for instance, how many times ANSI 16.1 has been used to influence/drive S/S mix designs on RCRA and Superfund sites. I simply chose ANSI since it was the forerunner of the other SDL methods. If such a document isn't out there, off the top of your head or from your personal experience, how many sites would be involved in your estimation? I can't think of a paper where this would have been covered, can you?

Any info would be appreciated,

Thanks,

Dennis

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